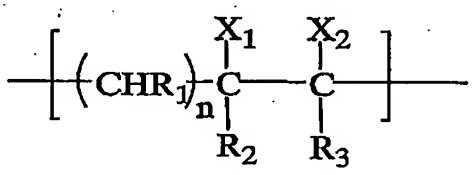
IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A polymer comprising mainly structural units represented by the following general formula (1):



(1)

[[(]]wherein, n stands for an integer of from 2 to 10; X_1 and X_2 each represents a hydrogen atom, a hydroxy group or a functional group that can be converted into a hydroxy group, provided that at least one of X_1 and X_2 represents a hydroxy group or a functional group that can be converted into a hydroxy group; R_1, R_2 and R_3 each represents a hydrogen atom, an alkyl group having from 1 to 5 carbon atoms, an aryl group, an aralkyl group or a heteroaryl group, provided that plural R_1s may be the same or different[[)]], wherein the total molar amount of ~~the~~ terminal aldehyde group and acetal group contained in the polymer is 0.6 mol% or smaller relative to the total molar amount of the structural units represented by the formula (1);

wherein the polymer is produced by a process comprising ring-opening, in the presence of a metal alkylidene complex comprising a ligand with an imidazolidine structure, a cyclic olefin comprising at least one cyclic olefin further comprising a hydroxy group or a functional group that can be converted into a hydroxy group, and

hydrogenating a resulting unsaturated polymer to produce the polymer.

2. (Original) The polymer according to Claim 1, wherein X_1 and X_2 each represents a hydroxy group or a functional group that can be converted into a hydroxy group.

3. (Previously Presented) The polymer according to Claim 1, wherein the functional group that can be converted into a hydroxy group is an epoxy group or a hydroxy group protected with a protecting group.

4. (Previously Presented) The polymer according to Claim 1, wherein the functional group that can be converted into a hydroxy group is a functional group selected from the group consisting of an epoxy group, acyloxy groups, alkoxy groups, alkoxycarbonyloxy groups, aryloxycarbonyloxy groups, alkoxyalkyleneoxy groups and siloxy groups.

5. (Previously Presented) A process for producing a polymer according to Claim 1, comprising ring-opening, in the presence of a metal alkylidene complex comprising a ligand with an imidazolidine structure, a cyclic olefin comprising at least one cyclic olefin further comprising a hydroxy group or a functional group that can be converted into a hydroxy group, and

hydrogenating a resulting unsaturated polymer to produce the polymer of Claim 1.

6. (Previously Presented) The polymer according to Claim 2, wherein the functional group that can be converted into a hydroxyl group is an epoxy group or a hydroxyl group protected with a protecting group.

7. (Previously Presented) The polymer according to Claim 2, wherein the functional group that can be converted into a hydroxy group is a functional group selected from the group consisting of an epoxy group, acyloxy groups, alkoxy groups, alkoxycarbonyloxy groups, aryloxycarbonyloxy groups, alkoxyalkyleneoxy groups and siloxy groups.